Annex F

(informative)

Graphics of Syntax for ISO/IEC 13818

F.0   Introduction

This part of the standard is an informative annex presenting graphically the ISO/IEC 13818 Transport Stream and Program Stream syntax . This part in no way replaces the preceeding normative section.

In order to produce clear drawings, not all fields have been fully described or represented. Reserved fields may be omitted or signaled by hatched lines. Fields length are indicated in bits.
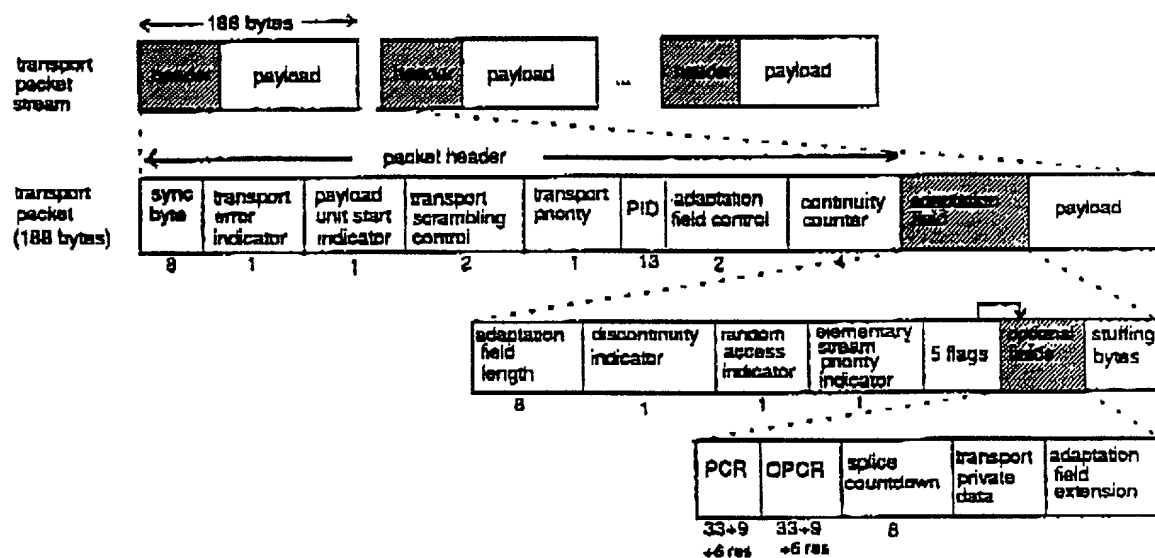
F.0.5   Transport Stream syntax
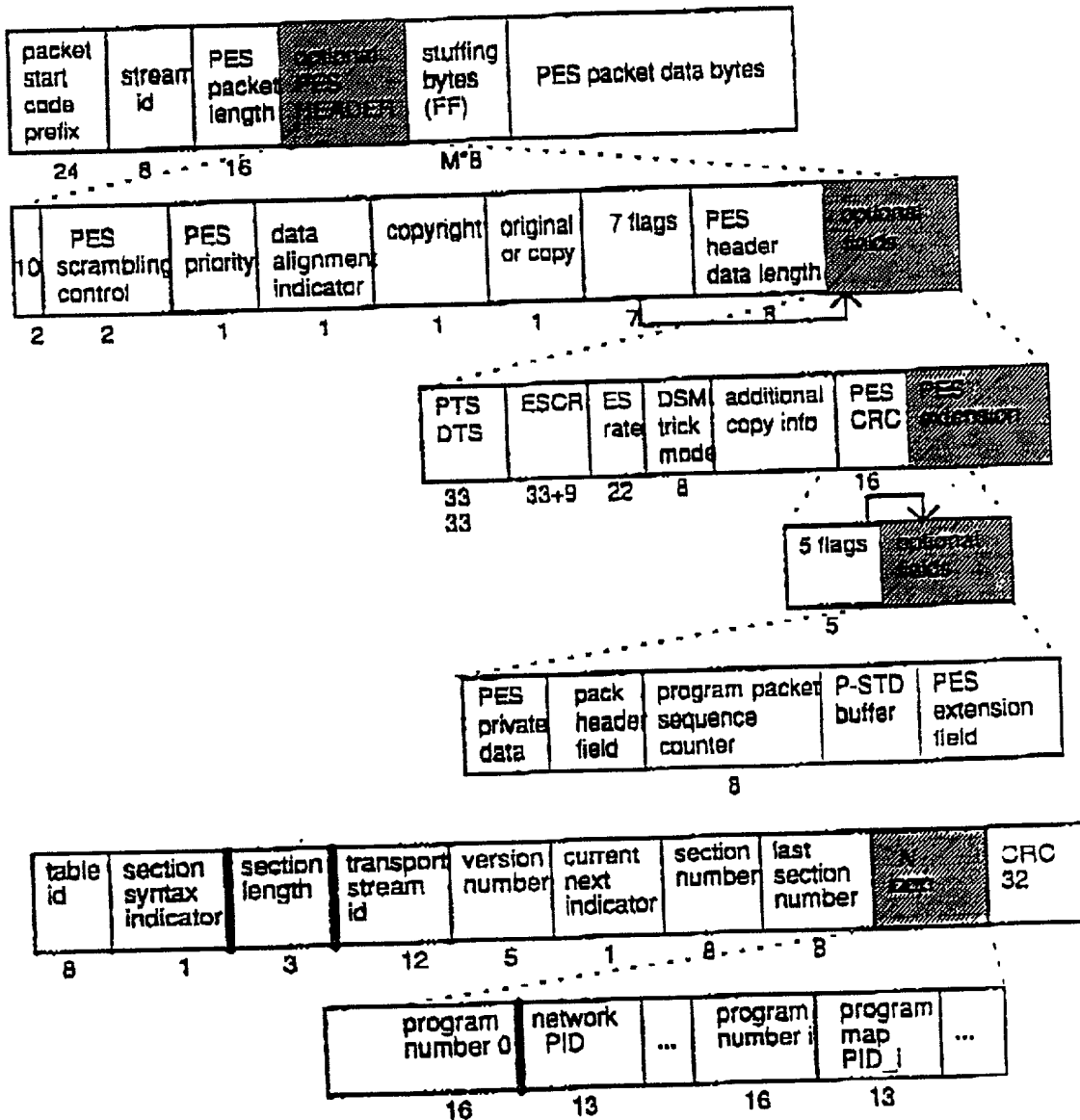

Figure F-1 – Transport Stream syntax diagram

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F.0.6 PES packet

packet start code prefix	stream id	PES packet length	optional PES HEADER	stuffing bytes (FF)	PES packet data bytes
24	8	16		M*8	

10	PES scrambling control	PES priority	data alignment indicator	copyright	original or copy	7 flags	PES header data length	optional fields
2	2	1	1	1	1	7	8	

PTS DTS	ESCR	ES rate	DSM trick mode	additional copy info	PES CRC	PES extension
33 33	33+9	22	8		16	

5 flags	PES extension field
5	

PES private data	pack header field	program packet sequence counter	P-STD buffer	PES extension field
				8

table id	section syntax indicator	section length	transport stream id	version number	current next indicator	section number	last section number	N byte	CRC 32
8	1	3	12	5	1	8	8		

program number 0	network PID	...	program number i	program map PID_i	...
16	13		16	13	

Figure F-2 – PES packet syntax diagram

F.0.7 CA section

table id	section syntax indicator	section length	version number	current next indicator	section number	last section number	N loop descriptor	CRC 32
8	1	3	5	1	8	8		
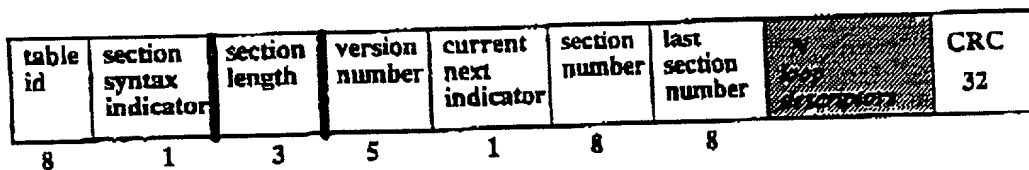
Figure F-3 – Conditional access section diagram

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F.0.8   TS program map section

table id	section syntax indicator	section length	program number	version number	current next indicator	section number	last section number	PCR PID	program info length	*N* *loop descriptors*		CRC 32
8	1	3	16	5	1	8	8	13	12			

stream type	elementary PID	ES info length	*N* *loop descriptors*
8	13	12	
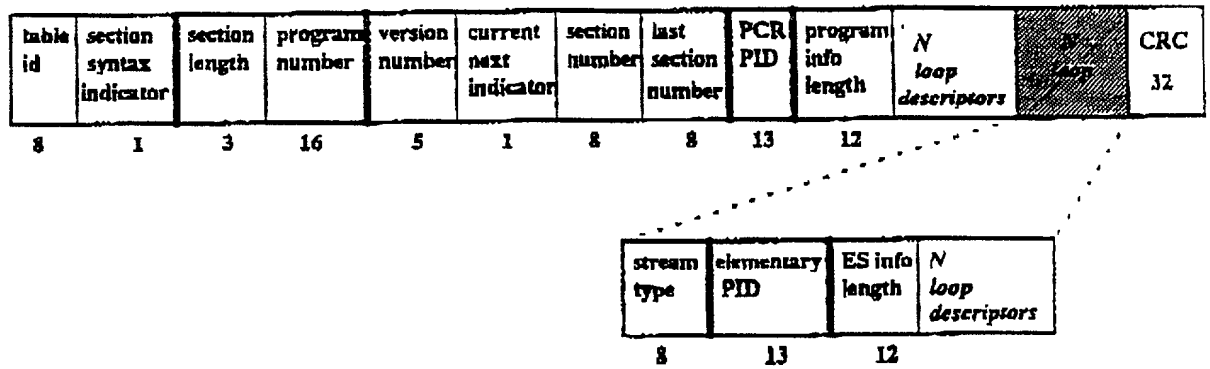
Figure F-4 — TS program map section diagram

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F.0.9   Private section

table id	section syntax indicator	private section length	
8	1	12	

'0'   '1'

private data bytes

table id extension	version number	current next indicator	section number	last section number	N private data	CRC 32
16	5	1	8	8		
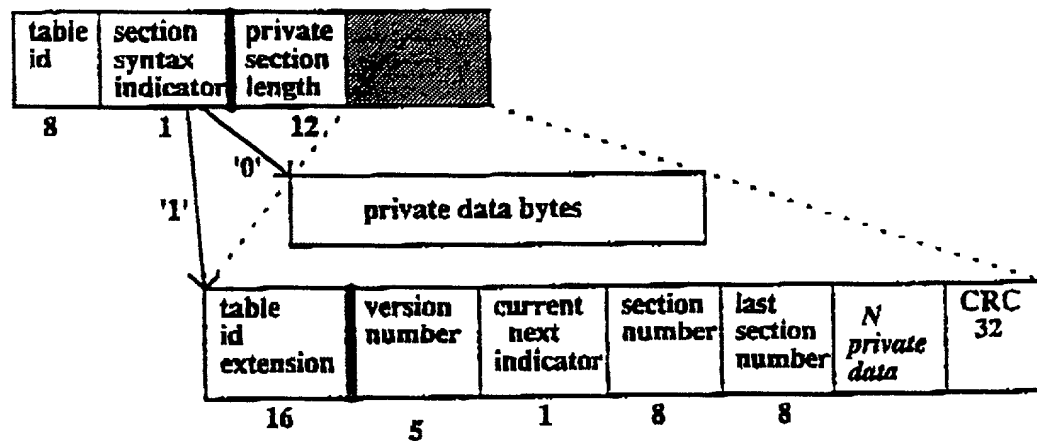
PID0 : PROGRAM ASSOCIATION TABLE

program 0	→ Network PID →	Network Information Table
program 1		
—		
program i	→ Program map PID_i	
—		
program x		
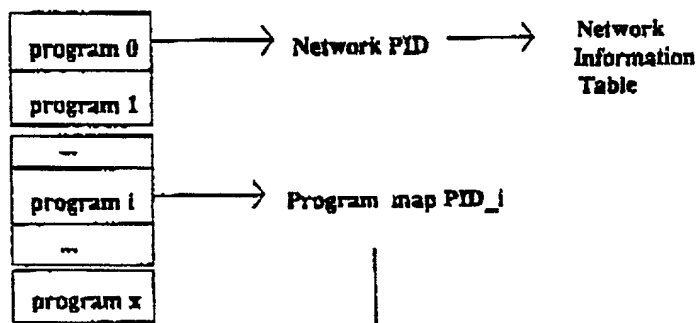
PID1 : CONDITIONAL ACCESS TABLE

descriptor 1	
descriptor 2	
—	
—	CA system id
descriptor j	CA PID
—	private info
...	
descriptor m	

TS PROGRAM MAP TABLE

program k section 0	
—	
program i section 0	PID_i
...	
program n last section 0	PID_n

PID_k   TS PROGRAM MAP SECTION

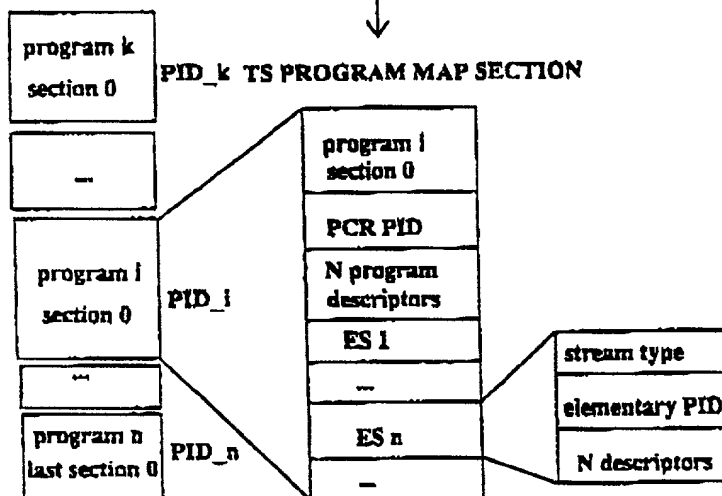| program i section 0	
PCR PID	
N program descriptors	
ES 1	
—	stream type
ES n	elementary PID
—	N descriptors
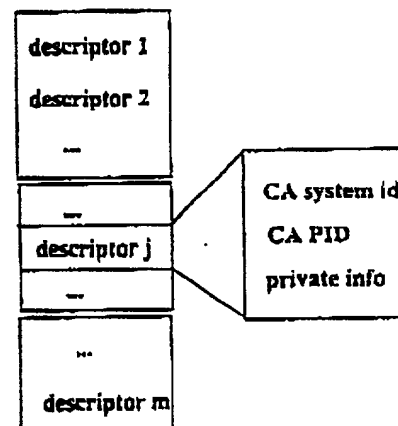
Figure F-5 -- Private section diagram

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F.0.10 Program Stream
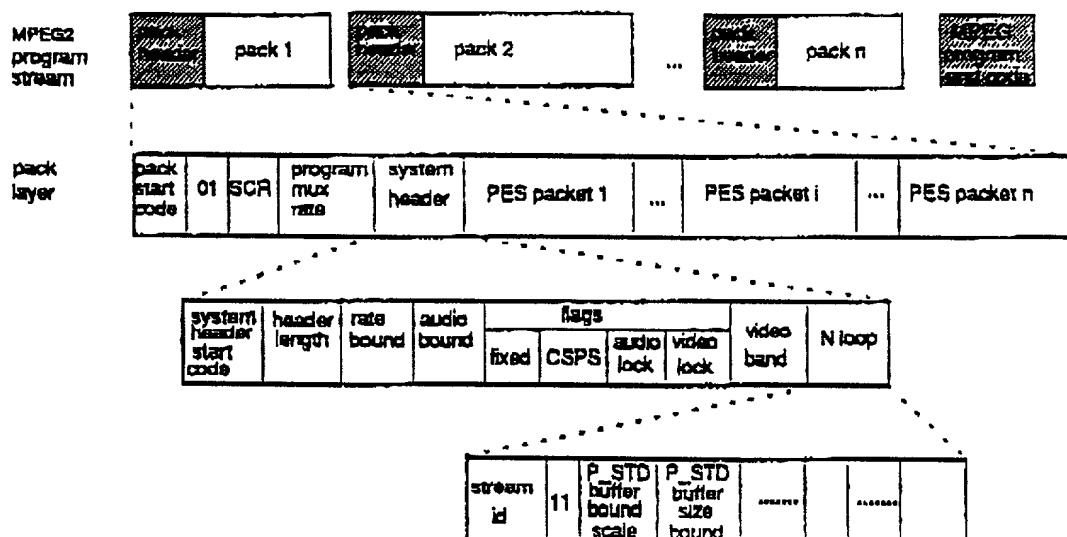
Figure F-6 — Program Stream diagram

F.0.11 Program Stream map

packet startcode prefix	map stream id	program stream map length	current next indicator	program stream map version	extended program stream info length	N descriptors	elementary stream map length	N loops	CRC 32
24	8	16	1	5	7	16	16		

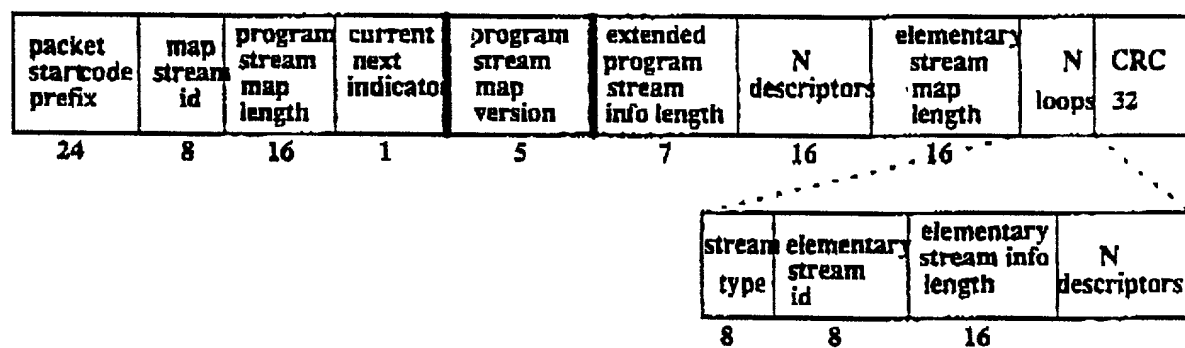| stream type	elementary stream id	elementary stream info length	N descriptors
8	8	16	

Figure F-7 — Program Stream map diagram

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